



**Calhoun: The NPS Institutional Archive**

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Information Technology and Communication Services (ITACS) Computer Center Bulletin

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1995-09-25

## Bulletin of Computing Services/Information Services / 1995-09-25

Monterey, California, Naval Postgraduate School

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**Dudley Knox Library / Naval Postgraduate School  
411 Dyer Road / 1 University Circle  
Monterey, California USA 93943**

<http://www.nps.edu/library>

# BULLETIN

OF

## Computer Services



## Information Services



Naval Postgraduate School

Monterey, California

September 25, 1995

URL: <http://vislab-www.nps.navy.mil/~frazier/bul.html>

### Computer Services News

Do you still golf? Watch TV? Spend time with your family? Then you must not have discovered the Web yet! –Actually, many people are able to surf the net in moderation – but as they discover great Web sites, they want to share them with others. Herewith are several from Library staff (after theirs come the ones I couldn't resist sharing).

On Computer Services workstations, and many other computers around campus, open Netscape. Then click on Open, and type in the URL shown. In this paper version of the Bulletin, it is often necessary to show a URL on two lines. Type them on a single line without any spaces.

This Bulletin is available on the Internet, from the NPS home page. Also, the Bulletin's URL is shown on the masthead above. In the net version of the Bulletin, it isn't necessary to type the URLs; the site is highlighted for you to access with a click.

From Glen Koue ([grkoue@nps.navy.mil](mailto:grkoue@nps.navy.mil)):

Anyone interested in taking a trip to the Grand Canyon should see the web page guidebook at:

<http://www.kbt.com/gc/>

An excellent source for web page design principles is the Yale Center for Advanced Instructional Media Style

see URL on p. 2

**See Computer Services talks on p. 7.**

### Knox Library News

#### *Visions of Libraries*

#### *Part 4 in the continuing series*

#### **On Librarians as Drudges and the Teeming Abundance of Information**

*Moby Dick* is the classic sea novel; some university English departments consider it one of the great American novels. Familiarity with this work, which combines a blue water deployment with a tale of an attempted search and destroy mission, would appear to be appropriate for a naval officer's education.

The introductory pages in some editions include a preface page headed, "Extracts (Supplied by a Sub-Sub-Librarian.)" (Parenthesized in the original) The edition from which I quote is *Moby Dick*, by Herman Melville. New York: The Modern Library, 1926, which resides in the Dudley Knox Library Leisure Collection. The section begins as follows:

It will be seen that this mere painstaking burrower and grub-worm of a poor devil of a Sub-Sub appears to have gone through the long

Vaticans and street-stalls of the earth, picking up whatever random allusions to whales he could anyways [sic] find in any book whatsoever, sacred or profane."

Relating this scenario to today's world might place us poor devils surfing the net, rather than, or in addition to, delving in the trays of the old card catalog, perusing the dusty shelves of a research library, or spending Sunday in the stalls across the

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Seine from Notre Dame or Tuesday evening at the farmer's market. The same conglomeration of undigested and unevaluated information can result, however serendipitous one's discoveries.

Melville continues: "Therefore you must not, in every case at least, take the higgledy-piggledy whale statements, however authentic, in these extracts, for veritable gospel cetology. Far from it. As touching the ancient authors generally, as well as the poets here appearing, these extracts are solely valuable or entertaining, as affording a glancing bird's eye view of what has been promiscuously said, thought, fancied, and sung of Leviathan....

Part of the role of the "Sub Sub's" at NPS is to steer information seekers to an initial entry point in a search path to locate information. A second part, of equal or greater importance, is to assist members of the NPS community in evaluating, or establishing criteria to evaluate, "what has been "promiscuously said, thought," etc. And to assist our customers in determining when a sufficiency of information is found in the midst of the abundance. Some of this is drudgery; some of it is exciting and very rewarding.

However, it will do us all good, librarians, ITM'ers, students and faculty, to heed Melville, when he enjoins the "poor devil of a Sub-Sub" ...which no wine of this world will ever warm; and for whom even Pale Sherry would be too rosy-strong" to

"Give it up, Sub Subs! For by how much more pains ye take to please the world, by so much more shall ye ever go thankless!"

Setting aside the questionable accuracy concerning the taste for the aforementioned drink, most of us do receive expressions of gratitude from customers or an internal satisfaction in the fulfillment of our own personal information searchers. Let's use Melville's injunction to set for ourselves limits, beyond those of merely time, when we have found enough and stayed long enough in front of our CRT's. After all, we have Melville's vision of ultimate reward for the Sub Sub's efforts:

"But gulp down your tears and hie aloft to the royal-mast with your hearts; for your friends who have gone before are clearing out the seven-storied heavens....against your coming."

Author's note: In future issues I may have to resort to the visions of libraries in library literature. To forestall this, anyone who has a favorite literary passage with visions of

libraries is encouraged to email me the reference.

*Maxine Reneker, Director, Dudley Knox Library*  
*mreneker@nps.navy.mil*

## **Joint Electronic Library (JEL)**

Issued by the J-7, Joint Staff, the Joint Electronic Library (JEL) provides full-text access to some doctrinal publications, approved Joint publications, selected service publications, military related research papers, articles and studies and military periodical indexes. The JEL is available on CD-ROM in the Electronic Resources room of the Dudley Knox Library and in the NSA lab. Updated information is also available via dial-in access in the NSA lab and hopefully in the near future, will also be available in the Library. Paper copies of many of the joint publications are also available in both locations. Those available in the Dudley Knox Library are cataloged and do appear in Bosun.

*Greta Marlatt gmarlatt@nps.navy.mil*

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## **URLs, cont'd.**

Manual at:

[http://info.med.yale.edu/caim/StyleManual\\_Top.HTML](http://info.med.yale.edu/caim/StyleManual_Top.HTML)

[Ed.: our webmaster, upon reading the above, would immediately email me saying to be sure also to see **Building Web Pages** at NPS on the NPS home page.]

At the following site there is a set of transparent GIFs of the Greek alphabet, mathematical symbols and letters and numbers for use in sub- and superscripts.

<http://donald.phast.umass.edu/kicons/greek.html>

The homepage for Supercomputing '95, a conference to be held in San Diego in December can be found at:

<http://sc95.sdsc.edu/SC95>

GulfLINK is the www information service from the Persian Gulf War Veterans Illnesses Task Force. This service provides to the public information concerning the illnesses affecting Gulf War veterans.

<http://www.dtic.dla.mil:80/gulflink/>

A list of www links to politicians representing the

Monterey area can be found on the Knox Library home page at:

<http://vislab-www.nps.navy.mil/~library/politics.html>

A list of sites about the Monterey Bay area can be found on the Knox Library home page at:

<http://vislab-www.nps.navy.mil/~library/monterey.html>

And from Larry Gaber: Internet information resources at the Defense Technical Information Center (DTIC).

DTIC Home Page -- basic information on DTIC and the various information services it provides.

<http://www.dtic.dla.mil/>

Defense Technical Information Web (DTIW) -- a wide range of DoD information, including DoD acquisition activities and the DoD Acquisition Workforce home page, and a host of other DTIC-developed information sources.

<http://www.dtic.dla.mil/dtiw/>

Information Analysis Centers (IACs) -- IACs are formal organizations chartered by DoD to facilitate utilization of existing scientific and technical information. The IACs are staffed by scientists, engineers, and information specialists who establish and maintain comprehensive knowledge bases.

<http://www/dtic.dla.mil/iac/iacdir.html>

DTIC MATRIS office home page -- MATRIS collects, stores, updates, retrieves and disseminates information on people-related research in the areas of manpower and personnel, training technology and human factors engineering.

<http://www.dticam.dtic.dla.mil/welcome/html>

[Ed.: More similar sites are available at **Other Military Sites** on the NPS home page.]

And now from George Goncalves: Military Standards at the Touch of a Keystroke:

<http://www.dtic.dla.mil/dps-phila>

The DPSDO Philadelphia home page allows users to order Military Specifications and Standards and related documents online from the Department of Defense Single Stock Point for Specifications and Standards (DoDSSP), and automatically establishes DoDSSP accounts for new users. Currently delivery of Mil. Standards is done over the mail. In the longer term, DPSDO will offer electronic delivery of military specifications and standards. The service is free of charge.

Helen Davis found the Open Text Web Index.

<http://www.opentext.com:8080/omw.html>

It's the best searcher we know at this point: fast, effective, flexible. They have indexed the full text of files at Web sites, so it's much more likely to find something helpful.

She also sent the URL of our newest neighbor on the web, California State University, Monterey Bay:

<http://www.monterey.edu/csumb-home.html>

Trying to find the best news group for your purposes? Try:

<http://www.jazzie.com/ii/internet/newsgroups.html>

It's Infinite Ink's Finding News Groups Page. You can search the brief description given by most groups; needn't try to guess the meaning of the abbreviated title.

Have you heard of Project Gutenberg? It's many people working together to put as many books as possible online. It's on the Web (this URL is the listing by author).

<http://jg.cso.uiuc.edu/pg/lists/author.html>

The title of this next item, as well as the tone of the page, sounds to this middle-aged editor rather flippant. In fact, the author makes some excellent points on what's wrong with many many Web pages, and gives some useful advice on how to make your page better. You may not agree with everything he says, but I think you'll find much of value at *Why the Web sucks II*

<http://www.spies.com/~ceej/Words/rant.web.html>

Anybody out there fascinated with nutrient data? I've been looking for years for a comprehensive online database; all the searches I could think of were unsuccessful. Browsing through Yahoo finally got me almost exactly what I wanted. It's a front end to the USDA's Nutrient Values. 5,000 food items, 60 or so measures on each item, per 100 grams or per portion; percentage of daily requirement; etc.

<http://www.fatfree.com/usda/usda.cgi>

### *Web Bookmark Tips*

Your list of Web bookmarks is getting longer. We've told you you could use View Bookmark to make category headers for your bookmark list. We told you you can organize your list by highlighting an item and clicking Up or Down. Here's the news: you can drop your new bookmark item directly into the right place by going to that place within View Bookmark and clicking Add Bookmark.



URLs and HTML figure in with other articles in this Bulletin; read on!

### *Send Us Your URLs*

If you've read this far, I'm sure you've found some Web sites you think others would appreciate. You may even have found some you wouldn't mind having your name connected with. Send them in! We'll publish them (anonymously, if you wish), and somebody out there will be grateful.

In a separate category, we'll also accept URLy puns: The URLy bird gets the worm. Or pURLs of wisdom. There's a glorious new wURLd out there! Depending how much cautionary mail we get from pun haters, we may even print some. You'll laugh! You'll weep! You'll hURL!

Larry Frazier [frazier@nps.navy.mil](mailto:frazier@nps.navy.mil)

### *Netscape Installation Help File*

Computer Services announces a file to help with the installation of the shareware version 2.0B of Winsock/Trumpet software from floppy disks for office or home personal computers. The software may be downloaded from the PC in the Consulting Office in Ingersoll 146.

The downloaded files also include Netscape, the Internet Web browser, and PC Eudora, the e-mail reader, besides the help file which may be printed out on home computers. The help file contains information on support limitations. Computer Services is presently following for on campus support. Information sources for off-campus support are also identified.

This is the shareware version 2.0B of Trumpet/Winsock, the same as passed out to members of the NPS Computer Club on disks, and may or may not be the same version the Navy recently site licensed under the Enterprise agreement. The distribution scheme for this version is not in place yet at NPS. Users are advised in the help file that there is shareware cost liability with the use of the V2.0B version.

Here's how to download the shareware version from Computer services:

Required: two (2) DOS formatted 3.5" High Density Floppies (1.44MB)

- 1) Place a diskette in drive A of the PC in In-146.

- 2) Go to the C prompt by typing C:
- 3) Type `getwinsock`
- 4) Follow the on-screen directions.

The help file may be viewed on the Computer Services web page under Dial-in Services and further under Windows at <http://vislab-www.nps.navy.mil/~usgwww/telecom/telecom.html>

Computer Services is indebted to a prior student of the Systems Management's Information Technology Curriculum, Clinton Swett, CAPT. USMC, who graduated in June 95. We wish to express our gratitude for his research efforts and hands-on experience that contributed to the information and processes described in the help file.

The procedures are written to accommodate new users with little PC expertise – they are quite detailed. Please provide any feedback that will correct or clarify any terminology that is not understandable, any procedures that are not easily followed, or to provide any fixes not identified in the file. Any questions on the help file should be directed to the authors:

Chris Essert ext 3121, [essert@nps.navy.mil](mailto:essert@nps.navy.mil)

Neil Harvey, ext 2088, [harvey@nps.navy.mil](mailto:harvey@nps.navy.mil)

### *Plain Paper Color PostScript Printer*

An HP DeskJet model 1200c/ps has been installed in the VisLab (Ingersoll-148). It is connected to our DEC Pentium 90 running DOS/Windows 3.1, our Macintosh running MacOS 7.5, and our Unix network via an SGI Indy known as [denebola.cc.nps.navy.mil](http://denebola.cc.nps.navy.mil). You can print color graphics and PostScript output to this printer from any of these machines. The Macintosh is directly connected via an AppleTalk interface and the Indy and PC share the parallel interface through an A/B switch box sitting on top of the printer. (To print from the PC to the LPT1 port you must turn the switch to the 'B' setting.) The default setting is for the Unix interface.

To print a color PostScript file from Unix first remotely log into host [denebola.cc](http://denebola.cc) then specify the '-dhp1200c' option to the `lp(1)` command, for example:

```
lp -dhp1200c myplot.ps
```

This new printer should now be used whenever possible instead of the Tektronix printer located in In-141. Its operating costs are much lower.

We can supply this printer with plain paper and ink cartridges. For now, our policy is that the user supply his or

her own glossy paper or transparency film. Rumor has it that Office Depot carries transparency film for this printer at a cost of about \$40 for 50 sheets. HP's part number and list price: HP51636F "LX JetSeries Transparency Film" 50 sheets for \$55.95

Mike McCann [mccann@nps.navy.mil](mailto:mccann@nps.navy.mil)

## Modifying a TIFF file

This question came in to *consult* recently.

A Unix user wants to import an x-y plot in TIFF format and add labelling to the graph before sending it to the printer. Is there any facility in Unix to do this??

Matt Koebbe responded: convert(1) will convert from TIFF to RGB. Import the image into the SGI showcase(1) utility. It's easy to annotate and much more. Save it as PostScript. This will create an Adobe level 3 PostScript file, which is read by our (in the VisLab) new inkjet printer. The complete story of how to massage color images (with an orientation of "for display on the World Wide Web"), see Paul "graphics guru" Haeberli's Grafica Obscura page:

<http://www.sgi.com/grafica/index.html>

where the last entry is "Image Production for the Web". There are many other useful links on the Obscura page, as well, including a wonderful set of origami instructions.

Matthew Koebbe [phaedrus@nps.navy.mil](mailto:phaedrus@nps.navy.mil)

## Vislab Research Published in Science

It's often said in scientific circles that if it's not published it was never done. One of our customers has just published an article in Science Magazine.

Our "little" Cray, the STK silos, and the VisLab are used in support of the research that is described in this article, which is available on the Web at:

<http://sci.aaas.org/aaas/computers/semtnr.html>

This hypertext article has links to visualizations that users have stored in our Silos.

Mike McCann [mccann@nps.navy.mil](mailto:mccann@nps.navy.mil)

## Matlab Documentation in HTML

In Matlab, if you type  
doc

you get online reference documentation via netscape.

Mike McCann [mccann@nps.navy.mil](mailto:mccann@nps.navy.mil)

## Mbone Unplugged

or how we created a wireless mobile television studio and multicast SIGGRAPH 95 world-wide over the Internet.

[Ed.: We have been telling you about Mbone, live video and audio on the Internet. Here's an excerpt from Don Brutzman's Web page describing his group's ground-breaking experiment in creating a self-contained mbone station, a TV broadcast station on a cart. This URL gives the rest of the story:

<http://www.stl.nps.navy.mil/~brutzman/unplugged.html>

WHAT, WHEN and WHERE was SIGGRAPH?

The annual conference of the Association for Computing Machinery (ACM) Special Interest Group on Graphics (SIGGRAPH) includes over 30,000 computer experts, explorers, and enthusiasts from all over the world. All focused on the adventurous edge of cyberspace, interactive digital techniques, new entertainment media, networked communities, and the science that creates tomorrow's technologies. August 6-11 1995, Los Angeles Convention Center, Los Angeles California USA.

### OUR OBJECTIVES

- \* Create a mobile studio for a week-long KSIG-TV. SIGGRAPH exhibitors were our programs.
- \* Provide content and lab facilities for local educators to learn about the Internet.

[At this point on the web page] is a video clip from local television station KCBA. They interviewed Tracey Emswiler [NPS student] about our efforts. The 50-second clip is a 19.2 MB QuickTime video.

Enter the "MBone Unplugged" cart Jon Bigelow put together: it was WAY COOL! It included the following gear:

- \* Silicon Graphics (SGI) entry-level Indy workstation
- \* AirLAN wireless bridges (2 Mbps bandwidth, spread spectrum, ~ 1 GHz frequency band, no FCC license required)
- \* Uninterruptible Power Supply (UPS), good for about 15 minutes
- \* Standard VHS VCR and television monitor
- \* Two VHS video cameras with tape capability and single mobile tripod
- \* Wireless microphones, lapel and hand-held

- \* Switch box to select camera/audio source
- \* Video projector to put live imagery on any nearby wall
- \* Wires, cables and adapters, labeled at each end
- \* Two cellular telephones for coordination and mobility
- \* Broomstick to lift wireless antenna above cart
- \* Various NPS master's students and passersby to push the darn thing

<http://vislab-www.nps.navy.mil/~frazier>

## ***Run MVS SAS Faster***

A new MVS job class has been created for SAS jobs which require large quantities of temporary disk space. In the past, when we had a heavy load of these kinds of jobs, ALL MVS jobs would stand in line behind these SAS jobs which were waiting for available storage space. Often, turn around would reach 4 or more hours. With this new queue turnaround time is about 15 minutes for these jobs.

Class H jobs can only be run for the exec SASBIG. The JCL to use this class is:

```
//JOBNAME JOB USER=S1234,CLASS=H,PASSWORD=XXXXXXXXX
// EXEC SASBIG
//ddname DD any dd statements
//SYSIN DD *
```

Jobs in this class can run for up to 10 minutes of CPU time and may have an unlimited number of tapes. No //WORK DD statements are necessary, as the exec SASBIG has 800 cylinders allocated for work space. If you have any questions, contact Helen Davis, [davis@nps.navy.mil](mailto:davis@nps.navy.mil), or x2446.

## ***ADP Security: System Monitoring***

The security banner displayed on NPS machines at login alerts the user that activity on that system and across the School's networks is subject to security monitoring. Users should be aware that NPS systems are being routinely monitored, and the results documented.

*Jeff Franklin [jfranklin@nps.navy.mil](mailto:jfranklin@nps.navy.mil)*

## ***Doug Williams Retires***

Doug Williams, head of the Computer Center from its inception in 1961 until 1994, has retired. He came to NPS as a Math professor, and returned to the Math department after he left the Computer Center. Many friends and family got together to salute him and his career August 24th. We were fascinated to hear of the changes he's seen in his computing career – and some of those changes have been made available at

## Computer Services Fall Quarter Talks

The Computer Services staff will give seventeen scheduled talks or sessions during the Fall Quarter to acquaint users with the Sun Workstations terminals in the Public Terminal Areas (PTA's), the Internet, dialing in from remote locations and other software. The machines in the PTA's run Unix based Operating Systems.

If the scheduled talk times are inconvenient, Computer Services speakers can come to your class or meeting to present many of the talk subjects. Visualization Lab orientations are presented in the Vis Lab in In-148. Furthermore, speakers are available for an additional list of specialized subjects. Speakers have found "on request" talks an efficient way to present information.

Interested faculty, staff, or students should contact one of the following (all phone prefixes are 656-):

Neil Harvey, phone 2088, e-mail harvey@nps.navy.mil  
Dennis Mar, phone 2672, e-mail mar@nps.navy.mil

for APL2/AGSS talks, Prof. Peter A. Lewis, phone 2283, e-mail lewis@nps.navy.mil

and for Visualization Lab presentations, Mike McCann phone 2752, e-mail mccann@nps.navy.mil

A brief description of scheduled and "on request" talks/sessions follows. If there is no time or date at the top of the description, it is an "on-demand" session. For scheduled sessions which require reservations, you may sign up in the "talk reservations" book in In-146, send e-mail to talks@nps.navy.mil or call ext. 3429.

## General-Interest Mainframe Talks

### Introduction to VM/CMS/XEDIT

- on request -

This talk assumes no prior knowledge of the Center's mainframe computer, and covers use of the 3278 keyboard, how to logon and logoff, use of the function keys, online help files, and various general-purpose commands. *It is strongly recommended for all new users of the mainframe and covers information which may not be provided in an introductory programming class.*

### Intro to XEDIT the mainframe editor

- on request -

This talk provides elementary information about XEDIT, the mainframe full screen editor. The main emphasis is on methods for creating and changing programs and other files. Use of the PF keys and HELP facility in XEDIT are mentioned. The talk assumes little or no familiarity with XEDIT.

## Microcomputer Talks

### Introduction to Kermit and SIMPC

1610 Monday 2 October Chris Essert In-119  
0910 Thursday 5 October Chris Essert In-119

This talk is presented two times. Signup is required for this talk. It explains how to install Version 6.1 of SIMPC on your home computer. The SIMPC software allows full-screen facilities (like XEDIT and FILEL) and transfer files between your home PC and the Computer Center's Amdahl mainframe computer running VM/XA/CMS and MVS/ESA. This talk also illustrates how to connect your home PC to the Computer Service's Unix workstations by using MS-DOS Kermit, version 3.13 which allows graphics to be displayed on your home PC from such popular Unix software packages as MatLab and S-Plus, besides providing the usual file transfer capability. The talk discusses hook-up procedures, common problems encountered and their solutions. Users may download the SIMPC/KERMIT software from the Consulting Office PC in Ingersoll Hall In-146. One DOS formatted 1.4MB floppy disk is required. To download the software, at the C: prompt, type: getsimpc

### Introduction to Trumpet and Winsock

1010 Tuesday 3 October Chris Essert In-122  
1410 Wednesday 4 October Chris Essert In-122

This talk is presented two times. Signup is not required for this talk. It explains the highlights of installing the Trumpet Winsock V2.0B software on office or home DOS personal computers. This is Shareware software with a small cost liability to the user of approximately \$25.00. It provides a one time low cost method for using Web browsers to surf the Internet, the Information Super Highway, while at NPS. This version of the software may or may not be the Enterprise version of the software recently site licensed by the U.S. Navy. When that version becomes available to NPS, the user Shareware costs will no longer apply. The talk discusses hook-up procedures, common problems encountered, their solutions and sources of additional support. Users may download the Trumpet/Winsock software from the Consulting Office PC in Ingersoll Hall In-146. Two DOS formatted 1.4MB floppy disks are required. To download the software, at the C: prompt, type: getwinsock



## APL2/AGSS Computing Environments

- on request -

APL2 is a modern APL language; AGSS is a scientific and statistical graphics package written in APL2. The combination of this interactive, array oriented language and the extensive suite of functions and graphics available in AGSS (A Graphical Statistical System) makes for one of the most effective computing environments currently available. This talk will discuss the use of the package for topics like regression, time series analysis and reliability data analysis in the mainframe computing environment. The APL2/AGSS software is available on microcomputers and the campus mainframe. On the mainframe, very large workspaces are available -- up to 999 megabytes.

## WordPerfect Thesis

1010 Friday	6 October	Larry Frazier GI-128
0910 Thursday	12 October	Larry Frazier GI-128
1410 Tuesday	24 October	Larry Frazier GI-128

This talk will be given three times; it shows how to produce a thesis in NPS-approved format using NPS Styles. The Style Sheets were developed at NPS to simplify the specific formatting requirements for theses. The talk is hands-on, and introduces the production of a thesis on Sun Unix WordPerfect (looks much like WordPerfect 6 Windows). DOS environment information is also presented. Printed documentation in the form of a sample thesis will be provided, and you'll be told how to get a copy of the software, which can be used with WordPerfect 5.1, 5.2, 6.0 DOS, and 6.0/6.1 Windows in labs and at home. Those attending this talk must be familiar with WordPerfect. *The talk is open to anyone preparing a thesis at NPS, including spouses.* Signup is recommended for this talk. There are approximately 15 workstations available. Those signing up first will have priority at the hands-on practice. Others will be able to watch and learn.

## Unix/Workstation Talks

### Unix Concepts

- on request -

This talk is presented in three 1 hr. sessions (part 1, 2, and 3) to acquaint users with the new Unix workstations and the Unix operating system. Signup is not required for this talk, but seating is limited to approximately 30 in In-119. The talk assumes little or no familiarity with Unix; it doesn't teach you how to view a file or create a directory (see following hands-on talk). This talk is open to faculty, students, NPS staff, staff of tenant activities, and spouses. The hierarchical structure of the Unix operating system will

be discussed to show how commands may be derived from more 'basic' commands rather than from memorization. Emphasis is on the Unix perspective to file system structure, disk usage, communication, and information retrieval. Part 3 will focus on security concerns in the Unix and internet environments that are currently affecting computing and resources at NPS. Sessions may be attended more than once. The foils used in this talk are visible at URL <http://www.nps.navy.mil/Vislab/ShellScripts.fm.html>

### Unix Hands-On 1

1010 Monday	2 October	Larry Frazier Ro-222
1410 Tuesday	3 October	Larry Frazier Ro-222

Most Unix systems at NPS provide graphical user interfaces that make it easier to get your work done. However, it can be helpful to have a general understanding of Unix itself, and there are times when you may need to create, copy, and delete files, create directories, etc., without the benefit of the graphical front end. This talk introduces such elementary topics, and might be all the Unix needed to get started on a Unix workstation. The Unix Concepts talk is more theory; this one is more command and procedure oriented. Signup is recommended for this talk. There are approximately 15 workstations available. Those signing up first will have priority at the hands-on practice. Others will be able to watch and learn.

### Introduction to the Unix Editor vi

1410 Tuesday	10 October	Dennis Mar Ro-222
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Unix systems at NPS usually provide text editors that make it easier to get programs or data entered into the computer. The basic text editor that all Unix systems have is called 'vi,' a full-screen interactive editor. This talk introduces the most common vi commands that allow one to create new text, revise existing text, or append text to an existing file. Signup is recommended for this talk. There are a limited number of workstations available. Those signing up first will have priority at the hands-on practice. Others will be able to watch and learn.

### Unix: Hands-On 2

1010 Wednesday	4 October	Larry Frazier Ro-222
1410 Thursday	5 October	Larry Frazier Ro-222

This is lesson 2, building on the Hands-on 1 talk; it covers Computer Services Unix features and other intermediate-level Unix commands. Signup is recommended for this talk. There are approximately 15 workstations available. Those signing up first will have priority at the hands-on practice. Others will be able to watch and learn.

## Cray YMP EL User Workshop

- on request -

This talk introduces users to the hardware and software available on the Cray Y-MP EL98. It is a hands-on class where attendees will run programs on the Cray via interactive login from the graphics workstations in the Lab. topics to be covered include: (1) Setting up a script to access data, compile & run a program, and store the resulting data. (2) Use of the Network Queuing System (NQS) to submit batch jobs and commands to monitor job progress. (3) Optimization of code, especially the vectorization of inner loops. (4) Using performance analysis tools to identify inefficient code. *Attendees should be familiar with Unix, vi, Fortran, and X-window concepts.* If you do not already have an account on the Cray then contact Ruth Roy at ext. 2796 or at roy@nps.navy.mil

## Introduction to the Vis Lab

- on request -

This is a two hour introduction to the hardware and software available in the Vis Lab (In-148). The first hour will be an overview of the image processing and visualization packages in the lab, particularly Vis5d (which allows interactive display of multi-dimensional gridded data), including how to get your data into Vis5d format. The use of computer generated screen graphics to still hard copy or animated images, plus color presentation mediums of hard copy, transparency, or video tape will be covered. The presentation will assume a working knowledge of Unix (other Unix talks are announced above). The second hour will be devoted to hands-on use of the tools, including the video recording hardware. Space is limited.

## Introduction to Shell Scripts

- on request -

As users, much of our interaction with the Unix operating system is via a special program called the shell. The shell interprets commands that we enter at a prompt and takes appropriate action. The shell understands several programming constructs such as loops and conditional tests. It is often more efficient to undertake a short programming task with a shell script that uses existing and well tested Unix commands than to write a program in a language such as C or Fortran.

This talk covers the two shells in general use: the C Shell (/bin/csh) (the default interactive shell for most users on most Unix systems) and the Bourne Shell (/bin/sh) (commonly used for complex programming tasks). The foils used in this talk are visible at URL

<http://www.nps.navy.mil/Vislab/ShellScripts.fm.html>

## Unix Open Houses and Internet Talks

### Driver's Ed for the Information Superhighway

1010 Wednesday 11 October Helen Davis In-122

1410 Thursday 12 October Helen Davis In-122

This talk describes how to access and use the Internet. The three basic internet tools will be covered: email, transferring files, and logging into remote systems. Demonstrations will include the use of a web browser (Netscape) to transfer files from remote locations and how to search through the web to find needed information. Signup is not required for this talk.

### Internet Workshop

0910 Friday 13 October Staff In-141

1310 Friday 20 October Staff Ro-222

These drop-in workshops will consist of a set of independent exercises on how to use the Internet. The exercises will introduce: how to transfer files from remote locations with FTP (File Transfer Protocol); how to look at information at remote locations with TELNET; and how to locate information on the internet with Archie, Gopher, and Netscape. Other useful procedures such as downloading files to a floppy disk with mcopy, how to recognize and decompress TAR files and others, how to send e-mail with mailtool including attached files, and local printing can be answered. The Center staff will be available to assist with any questions or problems that may arise during this two hour drop-in period. Attendees do not have to stay the full two hours, but may do so if they desire.

### Building Web Pages

1410 Thursday 19 October Helen Davis In-122

The Web (Internet with graphics and sound) is one of the hottest topics in computing these days. If you don't have your Web page up yet, this new talk is for you. This one-hour lecture will show NPS users how to set up pages on the World Wide Web. This will include instruction in: HTML, the language for web pages; how to get your web page on the server for the rest of the world to see; guidelines on policy and style; and URLs for advanced help in building pages. Experience with a web browser (mosaic, netscape Lynx, internet assistant, arena) is necessary for understanding this material. Signup is not required for this talk.

## Statistics

### Introduction to Minitab

- on request -

Minitab is an interactive statistical computing system available on VM/CMS and under DOS in the LRCs. It is designed for moderate-size data sets which can be stored on the hard disk. Minitab is quick and especially useful for exploring data, plotting, and regression analysis.

### APL2/AGSS Computing Environments

Please see the description for this talk shown in the micro-computer section of the talk listings.

### Introduction to SAS

- on request -

SAS, the Statistical Analysis System, is a flexible program for handling all phases of data analysis: retrieval, data management, statistical analysis, and report writing. It has excellent features for merging and subsetting data sets. The speaker will describe the required data format and SAS control statements for a simple problem. SAS will be demonstrated in batch mainframe, timesharing mainframe, and batch Unix.

### Introduction to S-Plus

- on request -

S-Plus is a statistical programming language of great generality offering over 1,400 built-in functions. In addition, users may write their own specialized functions. This talk will introduce data input, data structures, functions, graphics screens, interactive help, and printing.

*Neil Harvey email harvey@nps.navy.mil*

## Computer Help

Computer questions (Unix, PC, Mainframe, Cray)?

Send email to [consult@nps.navy.mil](mailto:consult@nps.navy.mil)

or call ext 3429 or visit **Consulting (Help**

**Desk)**: In-146, Mon-Fri 0900-1130 1315-1545

**Status recording**: 656-2713

**Dial-up**: 656-2709; up to 9600 bps

**TAC Access**: 647-8422

## Computer Center POC

**NOTE**: Email addresses in this section are simply the last name [@nps.navy.mil](mailto:@nps.navy.mil), unless shown otherwise in *italics*.

Manager, Systems Support

David F. Norman *dfnorman* In-129 2574

Manager, User Services (acting)

Dennis Mar In-133 2672

AIX: Jim Hart *jahart* In-106 3661

Editor, Bulletin Larry Frazier In-113 2671

User Registration Irma Bozardt In-147 2731

ADPSSO (Security) Neil Harvey In-108 2088

Administrative Assistant

Mandy Drury In-130 2574

Shift Supervisor, Operations In-140 2721

Manager, Operations: Roy Romo In-118 2641

Unix Systems Administration

Joe Blau In-111 3204

Hiram Cooke In-116 3662

Michael Pham In-116 4156

## Unix Workstations

In-141 has 17 Sun SPARC 10/41; Ro-222, 15; Sp-311, 8; Ha-201C, 4. (Each has an HP LaserJet 4si printer.)

## Mainframes

We operate (1) An Amdahl 5995-1100 (384 MB processor storage, 1 GB expanded storage). Interactive computing is provided under VM/XA CMS, batch processing under MVS/ESA with JES3 networking. (2) A Cray Y-MP/EL 98 (8 cpus, 2 GB memory, Unicos).

Hours of Operation: VM/CMS, MVS: 24 hrs/day, 7 days/wk

Status recording: 656-2713; Dialup: 656-2709 (to 9600 bps)

### Mainframe Terminals

In-141 3 3192-2 Graphics/APL

In-364E 14 3192 Graphics/APL

Bldg223 11 3178-2 (1 APL)

### Mainframe Printers

In-140 IBM 3800-3 Laser (215 ppm)

IBM 3262 Impact (650 lpm)

In-141 Tek 4693D Color Printer/Plotter

In-148 Shinko CHC-743MV Color Printer

In-364 IBM 3268 Impact (APL)

Sp-311 IBM 3203 Impact (1000 lpm)

Ro-222 Ha-201B IBM 3262 Impact (650 lpm)

## Manager, Visualization Lab In-148

Mike McCann In-102B 2752

Matt Koebbe In-102A *phaedrus* 3778

7 Silicon Graphics: 1 380 VGX, 1 Onyx, 3 4D TG, 1

Indigo<sup>2</sup>Extreme, 1 Indy, 1 ea.: Abekas frame recorder, Mac Quadra 700, HP 730, DECstation 5000, Sun SPARC 10/41

## Manager, Learning Resource Centers

Kathryn Strutynski GL-375 *kstrutynski* 2696

**LRC's**: Open: M-F 830-1630

Ro-262 20 Mac Quadra 700 6 PC 486/DX 50

GL-203 33 PC 486/DX 33

GL-318 19 HP 730 1 PC 486/DX 33

In-151 11 PC 386 (25/33) 1 HP LaserJet IIIsi

In-371 6 PC 486/DX 33 4 PC 386/25

GL-128 15 PC 386/20 2 Z-248 (286)

## Knox Library

Director: Maxine Reneker, Kn-261 2341

*MReneker*

## Library Catalog (BOSUN)

Available via dialup, and via gopher from most networked computers, and from VM/CMS.

Mon.-Thu. 0700-2300

Fri., Sat. 0700-1800

Sunday 0700-2200

## Administrative LAN Group POC

Admin LAN System Status 1051

Mgr: Joe LoPiccolo 2994

Codes 00, 01, 02, 03, 07 & Currics

Lonna Sherwin 1065

Codes 04, 06, 08, 51 Renée Lightcap 1066

Code 003, 42, 47 Chris Abila 2195

ME, AC, AD, PH, EC, SM, OC, OR,

MR, AA, SP, 52 Mohamed Abuaity 1064

Macintosh: Andy Melton 2975

## General Points of Contact

ADP Security, Jeff Franklin, He-E208 2469

Computer Advisory Board (CAB) Co-chairs:

Ted Lewis 2449

Jim Emery 3614

Computer Users Council (CUC)

R. Schwanz, President 3177

Caroline Miller, Secretary 3313



## **NPS Computer Club**

Club URL:

<http://vislab-www.nps.navy.mil/npscompu>

### **Officers:**

President/BBS/WWW	Mike Holden mjholden@nps.navy.mil
Vice President	Jim Cummiskey jccummis@nps.navy.mil
Secretary	Kern Lunde lunde@ece.nps.navy.mil
Membership	Rich Moorman moormann@nps.navy.mil
Treasurer	Doreen Jones DMJONES88@aol.com or dmjones@nps.navy.mil
MAC SIG Chair	Dan Starling NPSMUG@eworld.com
MAC SIG Vice Chair	Ty Gallander tjgallan@nps.navy.mil
DOS/Windows SIG Chair	Chris Henderson cbhender@nps.navy.mil
DOS/Windows SIG Vice Chair	Doug Brinkley dbrinkle@nps.navy.mil
OS/2 SIG Chair	Ed Devilliers devillie@cs.nps.navy.mil
User Groups Coordinator	Ann Sires lady21@aol.com
Past Pres/Newsletter	Andy Melton awmelton@nps.navy.mil
Past Pres	Bill Swain wtswain@nps.navy.mil or WTSwain@aol.com

BBS: Closet Gouge I & II: 1200, 2400, 9600,  
14400 bps; 8-N-1; 655-8785 or 655-8787

**Note:** Mention of any product or service in this  
Bulletin does not constitute a recommendation by  
NPS, DoD, or the US Government.

**Distribution:** List 3, plus: 20-B3, 200-B4, 200-B5, 2-B6, B15.

**Copy to:** 1-OR/Bi, 12-PERSEREC, 9-DMDC, 1-NAVSECGRUDET, 1-NOARL, 30-OC,  
5-FNOC Computer.